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Tender

## **Continuous Water Quality Monitoring (CWQM)**

YORKSHIRE WATER SERVICES LIMITED

F05: Contract notice – utilities

Notice identifier: 2024/S 000-028845

Procurement identifier (OCID): ocds-h6vhtk-04995e

Published 9 September 2024, 4:51pm

### **Section I: Contracting entity**

#### **I.1) Name and addresses**

YORKSHIRE WATER SERVICES LIMITED

Western House, Western Way, Buttershaw

BRADFORD

BD6 2SZ

#### **Contact**

David Archer

#### **Email**

[David.Archer@yorkshirewater.co.uk](mailto:David.Archer@yorkshirewater.co.uk)

#### **Telephone**

+44 7816265748

#### **Country**

United Kingdom

**Region code**

UKE41 - Bradford

**Companies House**

02366682

**Internet address(es)**

Main address

<https://www.yorkshirewater.com/>

**I.3) Communication**

Access to the procurement documents is restricted. Further information can be obtained at

<https://www.yorkshirewater.com/>

Additional information can be obtained from the above-mentioned address

Tenders or requests to participate must be submitted electronically via

<https://service.ariba.com>

**I.6) Main activity**

Water

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**Section II: Object**

**II.1) Scope of the procurement**

**II.1.1) Title**

Continuous Water Quality Monitoring (CWQM)

**II.1.2) Main CPV code**

- 90711500 - Environmental monitoring other than for construction

### **II.1.3) Type of contract**

Services

### **II.1.4) Short description**

This notice is seeking expressions of interest for the establishment of a Contract for Continuous Water Quality Monitoring (CWQM) related to:

- Site Planning & Investigation;
- Hardware & Data Transmission;
- Installation, Maintenance & Calibration; and
- Data Visualisation & Analysis.

This Contract Agreement is envisaged to be the primary route for selecting supplier(s) for the delivery of the CWQM hardware and services for the duration of the Agreement.

Any estimated quantities or values contained or referred to in this or other documentation are for guidance only and do not bind YWS to buy any specific quantities should the bidder be successful and enter into an Agreement.

Yorkshire Water has a statutory obligation to deliver continuous water quality monitoring up and downstream of all discharges for parameters as outlined in the Interim Technical Standard of Section 82 of the Environmental Act 2021.

Interested bidders will have the opportunity to express interest to this tender and Yorkshire Water will reserve the right to either award everything to the lead supplier under a "Data as a Service" managed service model (Lot 1), or Asset Ownership model (Lot 2).

Lots 1 and 2 have the same service scope and requirements but under different commercial models. Interested bidders can provide submission(s) for Lots 1 and / or 2.

Bidders need to deliver all the required services of the Lots they intend to submit a response. Lots will be awarded at Yorkshire Water's discretion.

Procurement Process:

To express an interest in participating in the tender, please contact David Archer ([David.Archer@yorkshirewater.co.uk](mailto:David.Archer@yorkshirewater.co.uk)) through email by 17:00 (GMT) on 9th October 2024.

Once a bidder expresses an interest, a Selection Question (SQ) document pack will be shared with them at a later date. This will include the SQ document that must be completed by all bidders and submitted in line with the deadlines included within the pack, which will be after the deadline to express an interest, giving bidders enough time to complete the documents.

All clarifications should be submitted on Ariba and can also be emailed to David Archer ([David.Archer@yorkshirewater.co.uk](mailto:David.Archer@yorkshirewater.co.uk)) by 17:00 (GMT) on 27th September 2024.

YWS will periodically consolidate clarifications that would be relevant to everyone and share the response to these with all bidders anonymously.

Following an assessment of the SQ responses received, successful bidders will be invited to participate in the ITT. This is planned for November 2024 but is subject to changes based on YWS discretion.

#### **II.1.5) Estimated total value**

Value excluding VAT: £97,500,000

#### **II.1.6) Information about lots**

This contract is divided into lots: Yes

Tenders may be submitted for all lots

The contracting authority reserves the right to award contracts combining the following lots or groups of lots:

Interested bidders can provide submission(s) for Lots 1 and / or 2. Tenders can be submitted by individual suppliers, or by lead suppliers representing a group of subcontracting suppliers or a Joint Venture. For this Agreement, Yorkshire Water recognises the supplier of Install, Maintain & Calibration as the Lead Supplier. The contracting authority reserves the right to award either Lot 1 or Lot 2, depending on the efficiencies that can be provided between the two models for all services.

### **II.2) Description**

#### **II.2.1) Title**

"Data as a Service" Managed Service

Lot No

1

**II.2.2) Additional CPV code(s)**

- 48610000 - Database systems
- 50433000 - Calibration services
- 51210000 - Installation services of measuring equipment
- 71352000 - Subsurface surveying services
- 71353000 - Surface surveying services
- 71355000 - Surveying services
- 71631440 - Flow-monitoring services
- 72313000 - Data capture services
- 72314000 - Data collection and collation services
- 72316000 - Data analysis services
- 72321000 - Added-value database services

**II.2.3) Place of performance**

NUTS codes

- UKE - Yorkshire and the Humber

Main site or place of performance

Yorkshire Region

**II.2.4) Description of the procurement**

Lot 1: "Data as a Service" Managed Service

Yorkshire Water has a requirement to ensure continuous water quality monitoring of the receiving watercourse upstream and downstream of storm overflows and wastewater treatment works, with monitoring data collected should be available to the public in a near real-time manner. To ensure Yorkshire Water's compliance with legal obligations and commitments to customers, several objectives need to be delivered, including:

Site Planning & Investigations - Yorkshire Water requires the supplier to conduct on-site survey in designated monitoring locations to identify optimal site for monitoring equipment

installation and devise deployment plan. Testing on-site instrument connectivity and transmission of monitoring data. The supplier is also responsible for developing investigation / pilots to assess site suitability for continuous water quality monitoring in a number of environments, such as estuarine, coastal and complex inland locations.

Hardware and Data Transmission - Yorkshire Water requires the supplier to secure water quality monitoring sensors for deployment that meet technical specifications, as outlined in the Interim Technical Standard of Section 82 of the Environmental Act 2021, and can reliably operate in the riverine environments. The supplier would be responsible to set up network for data transmission from on-site sensors with potential integration with Yorkshire Water's internal data management system. The supplier would also be providing necessary equipment and deploying appropriate measures for the secured housing of monitoring and telemetry assets.

Install, Maintain & Calibration - Yorkshire Water requires a relationship with a supplier to deploy monitoring sensors at identified installation sites. Devising servicing programme that includes regular maintenance, calibration and reactive repair in alignment with technical specifications outlined in the Interim Technical Standard of Section 82 of the Environmental Act 2021. The supplier would also be responsible for implementing necessary patching / updates on equipment software, and, in case of hardware failure, taking immediate mitigating actions to guarantee data availability and conducting failure investigations.

Data Visualisation & Analysis - Development and maintenance of a public-friendly online portal that visualises monitoring data in near real-time manner (normal data update every hour, with capability to increase frequency to every 15 minutes). The supplier would also develop relevant analysis tool to automatically generate insights from data, which can be leveraged to devise action plans under different scenarios.

Under the "Data as a service" Managed Service model, the bidder is expected to take ownership of installed hardware for the duration of agreement (and its extension). While bidders have flexibility on the arrangements post-installation, they would be fully accountable, on behalf of Yorkshire Water, to satisfy requirements on hardware functionality and data availability as stipulated in the Interim Technical Standard of Section 82 of the Environment Act 2021 for the duration of agreement (and its extension), and thus would also be accountable for any risks in case of non-compliance.

Suppliers that are wishing to express an interest in Lot 1, should either be able to cover all the service requirements listed above, or form a partnership with other suppliers that can carry out elements of the service, with them performing the role of lead bidder and being ultimately accountable for the overall delivery of any agreement.

Please note, it is Yorkshire Water's intention to award either Lot 1 or Lot 2, depending on the efficiencies that can be provided through "Data as a Service" over the Asset

Ownership model.

Yorkshire Water Procurement will follow a full EU OJEU process.

#### **II.2.5) Award criteria**

Price is not the only award criterion and all criteria are stated only in the procurement documents

#### **II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months

84

This contract is subject to renewal

Yes

Description of renewals

This agreement is valid for an initial period of 84 months, followed by an optional renewal in 12 month increments up to a total term of 36 months, at YWS discretion.

#### **II.2.10) Information about variants**

Variants will be accepted: Yes

#### **II.2.11) Information about options**

Options: Yes

Description of options

The option to modify the framework period will be reviewed based on the potential commercial benefits.

#### **II.2.14) Additional information**

The value of the direct contract with Yorkshire Water is estimated at £97,500,000.

### **II.2) Description**

#### **II.2.1) Title**

## Asset Ownership

Lot No

2

### **II.2.2) Additional CPV code(s)**

- 48610000 - Database systems
- 50433000 - Calibration services
- 51210000 - Installation services of measuring equipment
- 71352000 - Subsurface surveying services
- 71353000 - Surface surveying services
- 71355000 - Surveying services
- 71631440 - Flow-monitoring services
- 72313000 - Data capture services
- 72314000 - Data collection and collation services
- 72316000 - Data analysis services
- 72321000 - Added-value database services

### **II.2.3) Place of performance**

NUTS codes

- UKE - Yorkshire and the Humber

Main site or place of performance

Yorkshire Region

### **II.2.4) Description of the procurement**

Lot 2: Asset Ownership

Yorkshire Water has a requirement to ensure continuous water quality monitoring of the receiving watercourse upstream and downstream of storm overflows and wastewater treatment works, with monitoring data collected should be available to the public in a near real-time manner. To ensure Yorkshire Water's compliance with legal obligations and



commitments to customers, several objectives need to be delivered, including:

**Site Planning & Investigations** - Yorkshire Water requires the supplier to conduct on-site survey in designated monitoring locations to identify optimal site for monitoring equipment installation and devise deployment plan. Testing on-site instrument connectivity and transmission of monitoring data. The supplier is also responsible for developing investigation / pilots to assess site suitability for continuous water quality monitoring in a number of environments, such as estuarine, coastal and complex inland locations.

**Hardware and Data Transmission** - Yorkshire Water requires the supplier to secure water quality monitoring sensors for deployment that meet technical specifications, as outlined in the Interim Technical Standard of Section 82 of the Environmental Act 2021, and can reliably operate in the riverine environments. The supplier would be responsible to set up network for data transmission from on-site sensors with potential integration with Yorkshire Water's internal data management system. The supplier would also be providing necessary equipment and deploying appropriate measures for the secured housing of monitoring and telemetry assets.

**Install, Maintain & Calibration** - Yorkshire Water requires a relationship with a supplier to deploy monitoring sensors at identified installation sites. Devising servicing programme that includes regular maintenance, calibration and reactive repair in alignment with technical specifications outlined in the Interim Technical Standard of Section 82 of the Environmental Act 2021. The supplier would also be responsible for implementing necessary patching / updates on equipment software, and, in case of hardware failure, taking immediate mitigating actions to guarantee data availability and conducting failure investigations.

**Data Visualisation & Analysis** - Development and maintenance of a public-friendly online portal that visualises monitoring data in near real-time manner (normal data update every hour, with capability to increase frequency to every 15 minutes). The supplier would also develop relevant analysis tool to automatically generate insights from data, which can be leveraged to devise action plans under different scenarios.

Under the Asset Ownership model, Yorkshire Water will purchase and take ownership of the installed hardware from bidder, and the bidder is to comply with maintenance and calibration schedule defined by Yorkshire Water. While Yorkshire Water is mainly accountable to satisfy requirements on hardware functionality and data availability as stipulated in Environment Act 2021 for the duration of agreement (and its extension), the bidder would also be partially responsible for any risks in case of non-compliance as part of risk proportioning mechanism.

Suppliers that are wishing to express an interest in Lot 2, should either be able to cover all the service requirements listed above, or form a partnership with other suppliers that can carry out elements of the service, with them performing the role of lead bidder and being

ultimately accountable for the overall delivery of any agreement.

Please note, it is Yorkshire Water's intention to award either Lot 1 or Lot 2, depending on the efficiencies that can be provided through Asset Ownership over the "Data as a Service" model.

Yorkshire Water Procurement will follow a full EU OJEU process.

#### **II.2.5) Award criteria**

Price is not the only award criterion and all criteria are stated only in the procurement documents

#### **II.2.7) Duration of the contract, framework agreement or dynamic purchasing system**

Duration in months

84

This contract is subject to renewal

Yes

Description of renewals

This agreement is valid for an initial period of 84 months, followed by an optional renewal in 12 month increments up to a total term of 36 months, at YWS discretion.

#### **II.2.10) Information about variants**

Variants will be accepted: Yes

#### **II.2.11) Information about options**

Options: Yes

Description of options

The option to modify the framework period will be reviewed based on the potential commercial benefits.

#### **II.2.14) Additional information**

The value of the direct contract with Yorkshire Water is estimated at £97,500,000.

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## **Section III. Legal, economic, financial and technical information**

### **III.1) Conditions for participation**

#### **III.1.2) Economic and financial standing**

Selection criteria as stated in the procurement documents

#### **III.1.3) Technical and professional ability**

Selection criteria as stated in the procurement documents

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## **Section IV. Procedure**

### **IV.1) Description**

#### **IV.1.1) Type of procedure**

Negotiated procedure with prior call for competition

#### **IV.1.8) Information about the Government Procurement Agreement (GPA)**

The procurement is covered by the Government Procurement Agreement: No

### **IV.2) Administrative information**

#### **IV.2.2) Time limit for receipt of tenders or requests to participate**

Date

9 October 2024

Local time

5:00pm

#### **IV.2.4) Languages in which tenders or requests to participate may be submitted**

English

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## **Section VI. Complementary information**

### **VI.1) Information about recurrence**

This is a recurrent procurement: No

### **VI.2) Information about electronic workflows**

Electronic ordering will be used

Electronic invoicing will be accepted

Electronic payment will be used

### **VI.4) Procedures for review**

#### **VI.4.1) Review body**

Yorkshire Water Service Limited

Bradford

BD6 2SZ

Country

United Kingdom